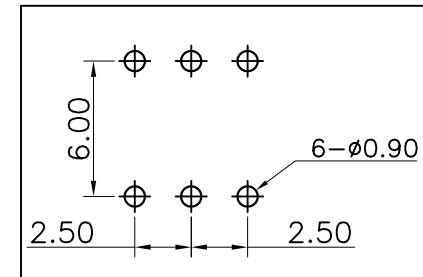
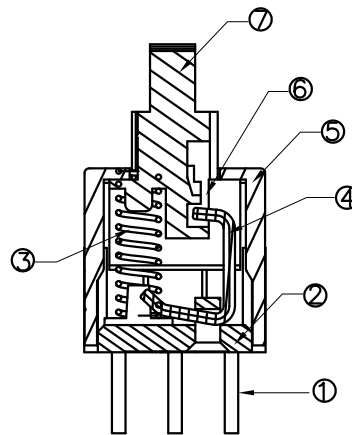
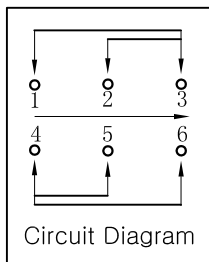
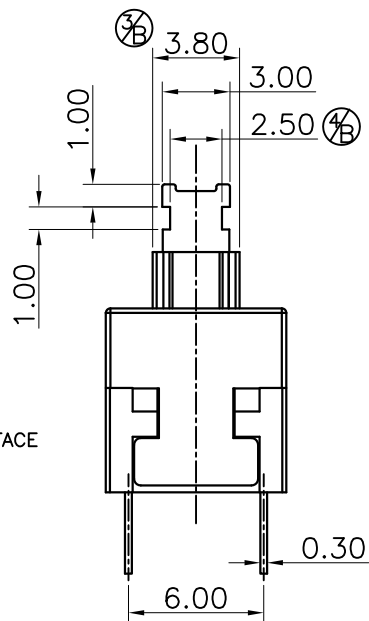
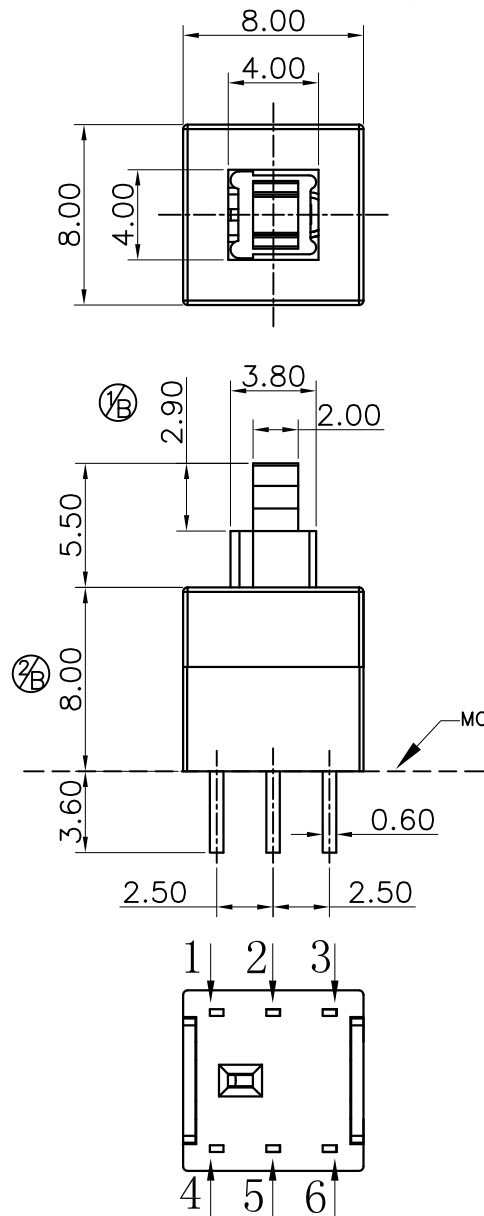


ABIDE BY RoHS



PCB Layout Recommended

Specification :

1. Rating : DC30V 0.1 A
2. Contact Resistance : 100mΩ Max
3. Insulation Resistance : 100MΩ Min
4. Withstand Voltage :  
AC250V (50-60Hz) For 1 Minute
5. Operation Force : 180±50gf
6. Life Test : 100,000 Cycles
7. Total Travel : 2.4±0.15 mm
8. Work Style : Non-Lock

ITEM	PART NAME	TER'NO.	QTY.	MATERIAL	FINISHING	REMARK
⑦	Keystoke		1	POM	Black	
⑥	Contact		2	Copper-silver Composite		
⑤	Cover		1	POM	Black	
④	Hookpin		1	Stainless Steel		
③	Spring		1	Stainless Steel		
②	Base		1	PA66	White	
①	Terminal	1,2,3,4,5,6	6	Brass	Plated Silver	

APPROVALS		DATE	东莞市凯华电子有限公司 KAIHUA ELECTRONICS CO.,LTD			
DRAWN	Liaoxiaomei	2013.01.03	KaiHua			
CHECKED			TITLE:	8.0无锁6p黑白		
APPROVALS			PART NO.	PG808110D04		
TOLERANCES ARE	30<L	±0.30	ANGLE	UNIT: mm	SCALE: 5:2	PROJ:
	10<L≤30	±0.20				
	5<L≤10	±0.15				
	L≤5	±0.10	±2'	DRAWING NO.		SHEET 1 OF 1

ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.
	B	13.01.03	5处进行变更: ⑤处尺寸3.00改为2.90, ④处尺寸8.15改为8.00, ③处尺寸3.85改为3.80, ⑥处尺寸2.30改为2.50,	Liaoxiaomei	Wanwenxue	Fangyong
	A	08.09.09	NEW			

## 1. 一般特性 General Characteristics

- 1.1 额定值(Rating Value): DC30V 0.1A
- 1.2 工作温度(Work Temperature Range):  $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- 1.3 存储温度(Store Temperature Range):  $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- 1.4 正常测试条件(未有特殊说明量测在以下条件进行):

General test condition (Tests and measurements shall be made under the following standard conditions unless otherwise specified):

正常温度:  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$       相对湿度: 45%~85% RH      气压: 86,000~106,000 帕  
 Temperature:  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$       Relative humidity: 45%~85%      Air pressure: 86,000~106,000 pa

## 2. 产品外观及尺寸要求 Appearance & Dimension Requirement

- 2.1 产品外形结构紧凑, 无配合不良.  
The structure of product is compact, and assembly of parts has no badness.
- 2.2 产品塑胶部件无严重缩水、披锋、欠注、斑点、破损或变形现象.  
The plastic parts of product have no serious defects such as very serious shrink, scarcity, fleck, disrepair, transmutation, etc.
- 2.3 产品引脚和外壳无严重氧化、脏污、变形、毛刺或电镀不良.  
Lead feet and shell have no serious defects such as oxidation, smudge, disrepair, burr, defects on plating.
- 2.4 开关操作顺畅, 节奏感强, 无明显卡塞现象.  
Operating switch is unhindered, rhythmmed, and there is not palpable clag.
- 2.5 产品结构及尺寸参见产品规格图纸.  
Construction and dimensions: Refer to individual product drawing.

## 3. 电气特性 Electronic Characteristics

No.	项 目 Item	测试方法 Test Method	测试设备 Equipment	特性要求 Requirements
3.1	接触电阻 Contact Resistance	在低电流 ( $\leq 100\text{mA}$ ) 条件下测试. Measured at low current (100mA or less).	低电阻测试仪 Low Resistance Meter	$100\text{m}\Omega$ max
3.2	绝缘阻抗 Insulation Resistance	测试相邻引脚之间, 引脚与外壳之间的绝缘阻抗. (DC 250V) Measurement shall be made between adjacent terminals, between terminal and shell.	绝缘测试机 Insulation Resistance Tester	$100\text{M}\Omega$ min
3.3	耐压测试 Dielectric Withstand Voltage	输入一定电压 (50~60Hz, 电压值 AC 250V) 1 分钟, 漏电流为 2mA, 测试邻近端子间. Apply certain voltage (50~60Hz, AC 250V) for 1 minute between adjacent contacts of the connector with 2mA leakage sensitivity.	耐压测试机 Puncture Tester	没有绝缘破坏. 电弧等异常. No arcing, break down and damaging insulation.

**4. 机械特性 Mechanical Characteristics**

No.	项 目 Item	测试方法 Test Method	测试设备 Equipment	特性要求 Requirements
4.1	操作力 Operation Force	逐渐施力操作开关按键, 测量开关到达全部工作行程时所需的最大操作力度。 Operate the keystroke of the switch and then increase press strength gradually, Measured maximum operation force while the travel of the switch is full.	测力计  Force Gauge	180±50gf
4.2	行 程 Full travel	垂直操作开关按键, 量测开关顶端最大移动距离。 Operate the keystroke of the switch vertically, the travel distance of keystroke moving from its free position to maximum moving distance shall be measurement.	游标卡尺  Vernier Caliper	2.4±0.15mm

**5. 可靠性测试 Reliability trial**

No.	项 目 Item	测试方法 Test Method	测试设备 Equipment	特性要求 Requirements
5.1	可焊性试验 Solder ability Test	端子顶部被浸入焊锡炉中, 温度为 260±5℃, 时间 5±1 秒。 The top of the terminals shall be dipped in the solder bath at 260±5℃ for 5±1 seconds.	控温锡炉  Solder Stove	引脚至少 95% 上锡。 接触电阻: 200mΩ Max 绝缘电阻: 10MΩ Min Ninety-five percent of terminals shall be dipped. Contact resistance: 200mΩ Max Insulation resistance: 10MΩ Min
5.2	寿命试验 Operation Life	开关在寿命试验设备上以约 60 次 / 分的速度连续被操作 100,000 次及以上。 Switch shall be operated 100,000 cycles Max continuously at about 60 time /min without load.	寿命试验机  Life Tester	接触电阻: 10Ω Max 绝缘电阻: 10MΩ Min 操作力: 变化在 ±50% 内 开关外观及结构无损坏。 Contact resistance: 10Ω Max Insulation resistance: 10MΩ Min Operating force: Change should be within ±50% of specified value. No abnormalities shall be recognized in appearance and construction.

**5. 可靠性测试 Reliability trial**

No.	项 目 Item	测试方法 Test Method	测试设备 Equipment	特性要求 Requirements
5.3	耐焊接热 Resistance to Soldering heat	端子焊接部分浸入焊炉,焊炉温度 $260\pm 5^{\circ}\text{C}$ ,焊接时间 $5\pm 1$ 秒。(焊接时不可于端子施加外力)。 Terminals shall be dipped in the solder bath at $260\pm 5^{\circ}\text{C}$ for $5\pm 1$ seconds without additional force for terminals.	控温锡炉  Solder Stove	接触电阻: $200\text{m}\Omega$ Max 绝缘电阻: $10\text{M}\Omega$ Min Contact resistance: $200\text{m}\Omega$ Max Insulation resistance: $10\text{M}\Omega$ Min
5.4	耐高温测试 Resistance to Heat Test	放置在温度 $80\pm 2^{\circ}\text{C}$ 环境中 96 小时后,再置于正常条件下 1 小时后测定。 The switch shall be stored at a temperature of $80\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.	高低温 试验机 High & Low Temperature Tester	接触电阻: $200\text{m}\Omega$ Max 绝缘电阻: $10\text{M}\Omega$ Min Contact resistance: $200\text{m}\Omega$ Max Insulation resistance: $10\text{M}\Omega$ Min
5.5	耐低温测试 Resistance to Cold Test	放置在温度 $-20\pm 2^{\circ}\text{C}$ 环境中 96 小时后,再置于正常条件下 1 小时后测定。 The switch shall be stored at a temperature of $-20\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.	高低温 试验机 High & Low Temperature Tester	接触电阻: $200\text{m}\Omega$ Max 绝缘电阻: $10\text{M}\Omega$ Min Contact resistance: $200\text{m}\Omega$ Max Insulation resistance: $10\text{M}\Omega$ Min
5.6	耐湿性测试 Resistance to Humidity Test	放置于温度 $40\pm 2^{\circ}\text{C}$ ,相对湿度为 $90\sim 96\%$ 环境中 96 小时后,再置于正常条件下 1 小时后测定(注意要擦去水滴)。 The switch shall be stored at a temperature of $40\pm 2^{\circ}\text{C}$ ,relative humidity $90\sim 96\%$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour (Wipe out water drip).	恒温恒湿箱  Temperature & Humidity Tester Chamber	接触电阻: $200\text{m}\Omega$ Max 绝缘电阻: $10\text{M}\Omega$ Min Contact resistance: $200\text{m}\Omega$ Max Insulation resistance: $10\text{M}\Omega$ Min
5.7	盐雾实验 Salt Mist Test	试件在下述实验后测量: 1. 温度: $35\pm 5^{\circ}\text{C}$ 2. 盐溶液浓度: $5\pm 1\%$ (质量百分比), 3. 试验时间: 24 小时, 4. 试验后,将盐沉积物用水冲掉。 The switch shall be checked after following test: 1. Temperature: $35\pm 5^{\circ}\text{C}$ 2. Salt solution: $5\pm 1\%$ (Solids by mass) 3. Duration: 24 hours, 4. After immersing, salt deposit shall be removed by running water.	盐雾 试验机  Salt Spray Tester	在金属件上没有严重腐蚀斑点。  No remarkable corrosion shall be recognized in metal parts.